

Reply Under 37 C.F.R. § 1.116 – Expedited Procedure

Serial No.: 09/924,785

Examiner: Shaima Q. Aminzay

In the claims:

1. (Currently amended) A system for supporting a wireless network service in conjunction with wireless communications services provided to a mobile station (MS) in a first network by a second network, the first and second networks having two different incompatible network technologies, the system comprising:

a wireless media gateway (WMG) implemented in the first network connected to at least one mobile switching center (MSC) of the first network, the MSC communicating with the MS for providing a wireless communication service by the first network thereto, ~~the wireless communication service working with the wireless network service; and~~

a wireless switch device (WS) implemented in the second network connected to the at least one MSC in the first network ~~without using the WMG, and~~ the WMG in the first network; ~~and~~

a service management subsystem that supports for the wireless network service in the first and second network, wherein the service management subsystem is connected to the wireless switch device in the second network;

wherein the wireless network communication service provided to the MS in initiated ~~within~~ the first network is controlled by the service management subsystem, the WMG of the first network, and the WS in the second network, ~~and~~

~~wherein the first and second network share the service management subsystem for supporting the wireless network service regardless the incompatibility of the corresponding network technologies.~~

2. (Currently amended) The system of claim 1 wherein the WS controls the operation of the WMG for providing the wireless network communication service.

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3. (Currently amended) The system of claim 1 wherein the wireless network service is a prepaid service and the WMG further connects to a receiver which communicates with the MS if the wireless network communication service is granted.

4. (Currently amended) The system of claim 1 wherein the wireless network service is a prepaid service and the WMG grants or stops the wireless communication service between the MS and a receiver based on instructions from the WS, the instructions being formed further based on communications between the service management subsystem and the WS.

5. (Original) The system of claim 1 wherein the WS further connects to at least one additional WMG situated in at least one additional network having its network technology as the first network such that the wireless network service is applicable to users of the at least one additional network.

6. (Original) The system of claim 1 wherein the WS communicates with the service management subsystem through a signaling control point.

7. (Original) The system of claim 1 wherein the wireless communication service is a voice service.

8. (Original) The system of claim 1 wherein the wireless communication service is a data service.

9. (Currently amended) A system for supporting a wireless network service in conjunction with wireless communications services provided to a mobile station (MS) in a first network having a first network technology by a second network having a second network technology, the first and second network technologies being incompatible to each other, the system comprising:

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an interface device implemented in at least one mobile switching center (MSC) of the second network enabling the MSC in the second network to communicate with at least one MSC in the first network; and

a service management subsystem connected to the MSC in the second network that supports the wireless network service in the first network and the second network,

wherein the service management subsystem provides control information to the MSC in the first network through the MSC in the second network for managing the wireless network service initiated within the first network; ~~and~~

~~wherein the first and second network share the service management subsystem for supporting the wireless network service regardless the incompatibility of the first and second network technologies.~~

10. (Original) The system of claim 9 wherein the MSC in the second network communicates with the service management subsystem through a signaling control point.

11. (Currently amended) A method for migrating a control of a wireless network communication service provided to a mobile station (MS) in conjunction with wireless communications services in a first network depending on a first network technology to a second network depending on a second network technology, the method comprising:

receiving a request for the wireless network communication service in the first network by a mobile switch center (MSC);

obtaining an instruction to grant or deny the wireless network communication service from a first control device in the second network, the first control device providing the instruction based on its communication to a service management subsystem for the control of the wireless network communication service;

if the wireless network communication service is granted, a second control device in the first network controlled by the first control device allowing the MS to execute the wireless network communication service with a receiver; and

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if the wireless network communication service is denied, the second control device in the first network controlled by the first control device prohibiting the MS to execute the wireless network communication service with the receiver,

wherein the first and second control devices communicate with each other using a predetermined protocol independent of the network technology used by either the first and the second network, and

wherein the first network thus maintains the control of the wireless network communication service through the service management subsystem connected to the second network without implementing additional service management subsystem.

12. (Currently amended) The method of claim 11 further comprising instructing the second control device to stop providing the wireless network communication service in response to instructions from if the service management subsystem ~~instructs the first control device so~~.

13. (Currently amended) The method of claim 12 wherein the step of instructing further comprising instructing the MSC of the first network to stop providing the wireless network communication service to the MS.

14. (Original) The method of claim 11 wherein the receiver is connected to one of the following networks: a Public Switch Telephone Network (PSTN), the first network, and the second network.

15. (Currently amended) The method of claim 11 wherein the first control device further connects to at least one additional control device similar to the second control device situated in at least one additional network having its network technology as the first network such that the service management subsystem of the second network controls the wireless network communication service provided to users of the at least one additional network.

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16. (Currently amended) The method of claim 11 wherein the wireless network communication service is a prepaid voice service.

17. (Currently amended) The method of claim 11 wherein the wireless network communication service is a data service.

18. (Currently amended) A system for migrating a control of a wireless network communication service in conjunction with wireless communications services provided to a mobile station (MS) in a first network depending on a first network technology to a second network depending on a second network technology, the method comprising:

a first control device in the second network for providing an instruction to grant or deny a request for the wireless network communication service in the first network by a mobile switch center (MSC);

a service management subsystem for communicating with the first control device providing information pertaining to the MS for the control of the wireless network communication service; and

a second control device in the first network controlled by the first control device for allowing the MS to execute the wireless network communication service with a receiver if the wireless network communication service is granted or for prohibiting the MS to execute the wireless network communication service with the receiver if the wireless network communication service is denied,

wherein the first and second control devices communicate with each other using a predetermined protocol independent of the network technology used by either the first and the second network, and

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wherein the first network thus maintains the control of the wireless network ~~communication~~ service through the service management subsystem connected to the second network without implementing additional service management subsystem.

19. (Original) The system of 18 wherein the service management subsystem is a billing subsystem for monitoring a credit account of the MS.

20. (Currently amended) The system of 19 wherein the first and second control device informs the MS if there is not enough credit in the billing subsystem to support the wireless network ~~communication~~ service.

21. (New) A system for providing a prepaid calling service in a first and second network, wherein technologies of the first and second network are different, the system comprising:

an interface device implemented in at least one mobile switching center (MSC) of the second network enabling the MSC in the second network to communicate with at least one MSC in the first network; and

a service management subsystem connected to the MSC in the second network that supports the prepaid calling service in the first network and the second network,

wherein the service management subsystem provides control information to the MSC in the first network through the MSC in the second network for managing the prepaid calling service within the first network.

22. (New) The system of claim 21, further comprising:

a service control point that interfaces between the MSC of the second network and the service management subsystem using an appropriate protocol.

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23. (New) The system of claim 23 the MSC in the first network communicates with the MSC in the second network to request the service management subsystem for approval to provide prepaid wireless service for an MS in the first network.

24. (New) The system of claim 24 wherein the MSC in the second network requests the service control point to verify credit information in the service management subsystem for a corresponding account for the MS.

25. (New) The system of claim 25 wherein the MSC in the second network transmits instructions to the MSC in the first network to grants or stop wireless communication service between the MS and a receiver based on instructions from the service control point.

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